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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Flight test report: EN 926-2:2013

riigiit test repo	51t. LN 520-2.2010						
Manufacturer ParAAvis Co.		Certification number Flight test		PG_1908.2022			
Address 17A/2 st.lskry 129344 Moscow Russia				2.01.2022			
Glider model	Toy M	Classification	Δ				
Serial number	5580	Representative		lone			
Trimmer		Place of test		/illeneuve			
	no	Flace of test	V	rillerleuve			
Folding lines used	no						
Test pilot		Claude Thurnheer	Δ	Alexandre Jofresa			
Harness		Advance - Success 4 M	Е	Oudek - ZeroGravity			
		44		3			
Harness to risers distance (cm) Distance between risers (cm)		44					
				48			
Total weight in flight	t (Kg)	85		105			
1. Inflation/Take-off		A					
Rising behaviour		Smooth, easy and constant rising	Α	Smooth, easy and constant rising	Α		
Special take off technique	required	No	Α	No	Α		
2. Landing		Α					
Special landing technique r	•	No	Α	No	Α		
3. Speed in straight flight		Α					
Trim speed more than 30 km/h		Yes	Α	Yes	Α		
Speed range using the controls larger than 10 km/h		Yes	Α	Yes	Α		
Minimum speed		Less than 25 km/h	Α	Less than 25 km/h	Α		
4. Control movement		A					
Max. weight in flight up to	-		•		•		
Symmetric control pressure / travel		not available	0	not available	0		
Max. weight in flight 80 kg to 100 kg		languaging / granton the arc CO are	٨	net evelleble	^		
Symmetric control pressure / travel		Increasing / greater than 60 cm	Α	not available	0		
Max. weight in flight greater than 100 kg Symmetric control pressure / travel		not available	0	Increasing / greater than GE on	۸		
		not available A	0	Increasing / greater than 65 cm	Α		
5. Pitch stability exiting accelerated flight		Dive forward less than 30°	Α	Dive forward less than 30°	Α		
Dive forward angle on exit		No		No	A		
Collapse occurs 6. Pitch stability operating	g controls during accelerated	A		NO	^		
flight	•						
Collapse occurs		No	Α	No	Α		
7. Roll stability and damp	ling	A					
Oscillations		Reducing	Α	Reducing	Α		
8. Stability in gentle spira		_					
Tendency to return to straig		A		0 1			
	ght flight	Spontaneous exit	Α	Spontaneous exit	Α		
The state of the s	ght flight ly developed spiral dive	Spontaneous exit					
Initial response of glider (fir	ght flight Iy developed spiral dive rst 180°)	Spontaneous exit A Immediate reduction of rate of turn	Α	Immediate reduction of rate of turn	Α		
The state of the s	ght flight Iy developed spiral dive rst 180°)	Spontaneous exit					
Initial response of glider (fir	ght flight Iy developed spiral dive rst 180°) ght flight	Spontaneous exit A Immediate reduction of rate of turn Spontaneous exit (g force	Α	Immediate reduction of rate of turn Spontaneous exit (g force	Α		
Initial response of glider (fir Tendency to return to straig	ght flight Iy developed spiral dive rst 180°) ght flight nal flight	A Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing) Less than 720°, spontaneous	A A	Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing) Less than 720°, spontaneous	A A		
Initial response of glider (fir Tendency to return to straig Turn angle to recover norm	ght flight Iy developed spiral dive rst 180°) ght flight all flight pse	A Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing) Less than 720°, spontaneous recovery	A A	Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing) Less than 720°, spontaneous	A A		
Initial response of glider (fir Tendency to return to straig Turn angle to recover norm 10. Symmetric front colla	ght flight Iy developed spiral dive rst 180°) ght flight all flight pse	A Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing) Less than 720°, spontaneous recovery	A A	Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing) Less than 720°, spontaneous	A A		

Dive forward angle on exit Change of course	Dive forward 0° to 30° Keeping course	Α	Dive forward 0° to 30° Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No	Α	No	Α
At least 50% chord	110	, ,		,,
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No	Α	No	Α
With accelerator				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No	Α	No	Α
11. Exiting deep stall (parachutal stall)	A			
Deep stall achieved	Yes	Α	Yes	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Change of course	Changing course less than 45°	Α	Changing course less than 45°	Α
Cascade occurs	No	Α	No	Α
12. High angle of attack recovery	A			
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Cascade occurs	No	Α	No	Α
13. Recovery from a developed full stall	A			
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Collapse	No collapse	Α	No collapse	Α
Cascade occurs (other than collapses)	No	Α	No	Α
Rocking back	Less than 45°	Α	Less than 45°	Α
Line tension	Most lines tight	Α	Most lines tight	Α
14. Asymmetric collapse	A			
Small asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15°	Α	Less than 90° / Dive or roll angle 15° to 45°	Α
Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Total change of course	Less than 360°	Α	Less than 360°	Α
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No	Α	No	Α
Large asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	Α	90° to 180° / Dive or roll angle 0° to 15°	Α
Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Total change of course	Less than 360°	Α	Less than 360°	Α
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No	Α	No	Α
Small asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	Α	Less than 90° / Dive or roll angle 15° to 45°	Α
Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Total change of course	Less than 360°	Α	Less than 360°	Α

Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No	Α	No	Α
Large asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	Α	90° to 180° / Dive or roll angle 0° to 15°	Α
Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Total change of course	Less than 360°	Α	Less than 360°	Α
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No	Α	No	Α
15. Directional control with a maintained asymmetric collapse	Α			
Able to keep course	Yes	Α	Yes	Α
180° turn away from the collapsed side possible in 10 s	Yes	Α	Yes	Α
Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	Α	More than 50 % of the symmetric control travel	Α
16. Trim speed spin tendency	A			
Spin occurs	No	Α	No	Α
17. Low speed spin tendency	A			
Spin occurs	No	Α	No	Α
18. Recovery from a developed spin	A			
Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in less than 90°	Α
Cascade occurs	No	Α	No	Α
19. B-line stall	A			
Change of course before release	Changing course less than 45°	Α	Changing course less than 45°	Α
Behaviour before release	Remains stable with straight span	Α	Remains stable with straight span	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Cascade occurs	No	Α	No	Α
20. Big ears	Α			
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Stable flight	Α	Stable flight	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
21. Big ears in accelerated flight	Α			
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Stable flight	Α	Stable flight	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	Α	Stable flight	Α
22. Alternative means of directional control	A			
180° turn achievable in 20 s	Yes	Α	Yes	Α
Stall or spin occurs	No	Α	No	Α
23. Any other flight procedure and/or configuration described in the user's manual	0			
Procedure works as described	not available	0	not available	0
Procedure suitable for novice pilots	not available	0	not available	0
Cascade occurs	not available	0	not available	0

24. Comments of test pilot